## PATENT COOPERATION TREATY

From the:
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

EZYTUBE PTY LIMITED et al

WATERMARK PATENT & TRADEMARK ATTORNEYS Locked Bag 5 HAWTHORN VIC 3122 SECD 19 JUL 2005  Applicant's or agent's file reference P23060PCAU		PCT  NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)  (PCT Rule 71. 1)  Date of mailing (dry/month/seq.)  1 8 JUL 2005	
		(day/month/year) 1 U J U Z UUJ  IMPORTANT NOTIFICATION	
International application No. International filing PCT/AU2004/001017 30 July 2004		rite (day/month/year) Priority date (day/month/ 30 July 2003	
Applicant			

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translations to those Offices.

### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

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# PATENT COOPERATION TREATY

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P23060PCAU	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No.	International filing date (day/month 30 July 2004	Ayear) Priority date (day/month/year) 30 July 2003			
PCT/AU2004/001017		1 30 243, 2003			
International Patent Classification (IPC) or	•				
Int. Cl. <sup>7</sup> B32B 1/08, 27/08, 27/10, 27	/32, 29/00, 31/02				
Applicant EZYTUBE PTY LIMITED et al					
EZITOBETTI IMMITED CI.					
This report is the international prelimina Authority under Article 35 and transmitt	ry examination report, established by ed to the applicant according to Artic	this International Preliminary Examining le 36.			
2. This REPORT consists of a total of 3					
3. This report is also accompanied by ANN					
		neets, as follows:			
sheets of the description, c	laims and/or drawings which have be	en amended and are the basis for this report and/or			
sheets containing rectificat Administrative Instructions	ions authorized by this Authority (see	e Rule 70.16 and Section 607 of the			
sheets which supersede ear	lier sheets, but which this Authority	considers contain an amendment that goes beyond			
the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental					
Box. b. (sent to the International Bureau	only) a total of (indicate type and m	nmber of electronic carrier(s)) , containing			
a sequence listing and/or table re	lated thereto, in computer readable f	orm only, as indicated in the Supplemental Box			
A COLON CONTRACTOR AND	e Section 802 of the Administrative I	nstructions).			
	•				
Box No. I Basis of the report					
	Box No. II Priority				
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
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Box No. VII Certain defects in	Box No. VII Certain defects in the international application				
Box No. VIII Certain observation	ns on the international application				
Date of submission of the demand	Date of compl	etion of the report			
28 February 2005 5 July 2005					
Name and mailing address of the IPEA/AU	Authorized Offi	cer			
AUSTRALIAN PATENT OFFICE		·			
PO BOX 200, WODEN ACT 2606, AUSTRALI E-mail address: pct@ipaustralia.gov.au	Tharu Ferns	ando			
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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001017

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/AU2004/001017

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement		
Novelty (N)	Claims 1-13	YES
• • • • • • • • • • • • • • • • • • • •	Claims	NO
Inventive step (IS)	Claims 1-13	YES
• ,	Claims	NO
Industrial applicability (IA)	Claims 1-13	YES
	Claims	NO

<sup>2.</sup> Citations and explanations (Rule 70.7)

## Novelty and Inventive Step (Claims 1-13)

The present invention is directed to the use of a particular sub-layer which may be used in the construction of multi-layer tubes, wherein the sub-layer consists of a woven polymer mesh disposed in between one or more outer layers of material consisting of paper, poly-propylene and poly-ethylene. The tubes will be formed from one or more layers of the sub-layer using the spiral winding technique that is well known in the art

This invention has been developed in relation to overcome the problem of improving the physical properties of paper-based tubing without increasing the weight of the tube by excessive paper layering or using expensive or hazardous adhesives.

The closest prior art documents are:

- \*EP 1001204
- \*US 200100237148
- \*FR 2835584

Despite each of the above documents disclosing the use of a reinforcing mesh, none of therm disclose a tube which is formed from spiral winding of a particularly advantageous sub-layer. Therefore none of the documents provide an obvious solution to the problem of constructing a tube suitable for the uses identified in the present specification, such as having sufficient strength without the excessive paper layering and being suitable for manufacture on conventional spiral winding equipment. As such claims 1-13 are novel and involve an inventive step.

#### Industrial Applicability (Claims 1-13)

The invention defined by claims 1-13 is industrially applicable.